TASSOBAR EN-GJL-200C

(According to EN 16482:2024)

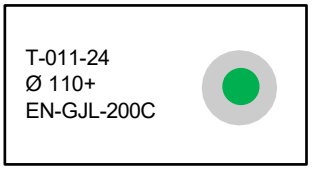
Characteristics

This grade offers exceptional machinability and excellent surface finishes, but limited strength and wear resistance. Noise and vibration damping are excellent in this grade.

Profile and size range	
Round	Diameter 41 – 440 mm
Square	40 x 40 mm – 280 x 280 mm
Rectangle	Upon request
Non-standard	Other sizes/profiles are available or can be produced according to agreement

Identification

Each TASSO-Bar is labelled with detailed information for full traceability:
Batch Number – Colour Code - Dimension – Material Grade



Chemistry (main elements)

The chemical composition is subordinate to the mechanical properties and at the discretion of Tasso.

Elements	Typical %
Iron	Balance
Carbon	2.90-3.50
Silicon	2.00-2.90
Manganese	0.40-0.90
Phosphorous	0.07-0.15
Sulphur	0.04-0.08
Others/Alloying	Residual

Mechanical Properties: (Taken from mid-radius of cast bar, not separately cast test bar).

Material Specification	Material Section	Tensile Strength N/mm^2 min.
TassoBar EN-GJL-250C	20 mm – 50 mm	155
	>50 mm – 100 mm	140
	>100 mm – 200 mm	125
	>200 mm – 400 mm	115

Reference: EN 16482:2024, Table 1

Brinell Hardness Range (Informative): 140-210 HB measured as an average of the center and the rim area of the bar (10 mm diameter ball).

Microstructure (Informative): A, D & E graphite flakes. The matrix is approx. 40% or more pearlitic. The rim is predominantly ferritic and may contain minor quantities of free carbides.

Heat Treat Response: TassoBar EN-GJL-200C is not suitable for hardening applications.

Density: 7.25 g/cc + 3% for oversize and gross length of bar.

Issue 5, 30.12.2024 (check online to validate version)